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CLAIMS

- Active load arrangement (Z) used to provide output DC load to an object (TO) under AC test, which arrangement 5 (Z) comprises a voltage controlled transistor (MOSFET) having a source (S), a gate (G) and a drain (D), which drain (D) is associated with the gate (G) and connected to an arrangement input (I2) associated with the object (TO), and which source (S) is connected to an 10 arrangement output (02) associated with the characterised by a feedback arrangement connected to the source (S) and to (G), the gate which arrangement by varying frequency changes phase amplitude of the gate-to-source voltage to obtain low 15 impedance at low frequencies and high impedance at high frequencies.
- 2. Active load arrangement according to claim 1, whereby the feedback arrangement comprises a first feedback net (FBN1) in which an inductance (L1) is connected between the source (S) and the arrangement output (O2).
- 3. Active load arrangement according (Z) to claim 2, whereby the feedback arrangement comprises second feedback net (FBN2) in which a first resistance (R1) is connected between the gate (G) and the arrangement input 25 (I2), and a second resistance (R2) is connected between the gate (G) and the source (S), and a capacitor (C1) is connected between the gate (G) and the arrangement output (02).
- 4. Active load arrangement (Z) used to provide proper DC output load to an object (TO) under AC test, which arrangement (Z) comprises a voltage controlled transistor (MOSFET) having a source (S), a gate (G) and a drain (D), which drain is connected to an arrangement

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input (I2) associated with an output (O1) of the object (TO), whereby a first resistance (R1) is connected between the gate (G) and the drain (D), characterised in that an inductance (L1) is connected between the source (S) and an arrangement output (O2) associated with an input (I1) of the object (TO), and that a capacitance (C1) is connected between the gate (G) and the arrangement output (O2).

- 5. Active load arrangement (Z) used to provide proper output load to an object (TO) under test according to claim 4, whereby a second resistance (R2) is connected between the gate (G) and the source (S).
- 6. Active load arrangement (Z) used to provide proper output load to an object (TO) under test according to claim 4, whereby a second resistance (R2) is connected in parallel with the capacitance (C1).
 - 7. Active load arrangement (Z) used to provide proper output load to an object (TO) under test according to any of claim 4-6, whereby a rectifier bridge is situated between the test object (TO) and the test arrangement (TA).
- Active load arrangement (Z1) used to provide output load to an object (TO) under test, comprising an active load arrangement (Z) according to any of claim 1-3 and a 25 voltage controlled transistor (MOSFET2) comprising a second source (S2), a second gate (G2) and second drain (D2), which second source connected via the feedback arrangement to the source (S) and the gate (G) and via a fourth resistor (R4) to the 30 second gate (G2), which gate (G2) is connected via a fifth resistance (R5) to the second drain (D2) and to an arrangement output (03) associated with the test object

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(TO) and which second gate (G2) is connected to the source (S) via a second capacitor (C2).